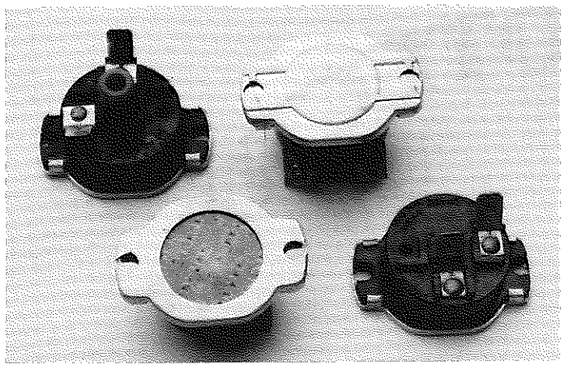
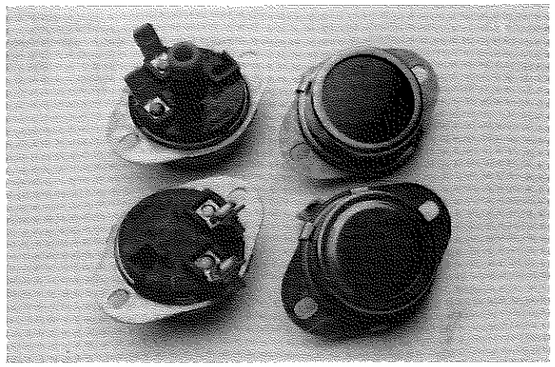
TYPE T1 and T2 THERMOSTAT





Description:

A single pole/change-over contact thermal cut-out, having a fixed temperature bi-metal disc actuating a switching mechanism providing for the automatic opening and closing of an electrical circuit. All parts are mounted on a phenolic base being provided with mounting ears for attaching the protector to a flat or recessed surface.

Application:

Heavy duty thermal protection (insensitive to current) for i) heating appliances, dryers, ii) thermostatic control for main pressure and instantaneous hot water systems, electronic components and enclosures, air conditioning heater banks.

Operation:

i) SPST. Single Pole; make or break contacts only. The operation of the contacts are factory set so that they either make or break an electric circuit on temperature rise and automatically reset when safe operating temperatures are restored. Manual reset cut-outs interrupt a circuit on temperature rise only and are reclosed by pressing the push-button after equipment has normalised and/or faults rectified.

ii) SPDT. Change-over contact option is available whereby a common line is interrupted from one circuit and connected to another circuit simultaneously on temperature rise.

Closed face thermostat: (C/F)

Temperature sensing is achieved by surface to surface contact, ie; attaching the front flat face of the protector onto a flat surface of the equipment to be monitored. Changes in temperature are conducted through the metallic housing cap and directly onto a bimetal disc which snaps over to operate a set of contacts after a pre-determined temperature has been reached.

Open face thermostat: (O/F)

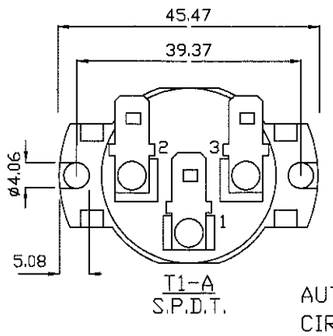
The bi-metal disc is exposed to facilitate good response to changes in surrounding temperature, the exposed face directed at the medium to be monitored, eg; airstream in dryers, air conditioning ducts.

Note: Manual operation, ie; flexing of the bi-metal disc in open face thermostats whilst in a cold condition permanently alters the calibration.

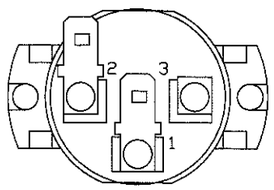
Specifications:

Operating Temperature selection	Nominal temperature 32 °C to 150°C
Tolerances: (automatic reset)	Opening temperature: +/- 2°C
	Closing temperature: +/- 3°C
Differential:	Between 8°C and 10°C
Electrical:	250Vac. 50c/s. 25.0amp. load when p.f.=1.0
	24Vdc. (max) 3.0amp (max)
	SPST or SPDT contacts
Terminals:	6.3mm Quick connect tabs - tinned brass
	5/32 in. screw brass
Approvals:	Approval No. CS907N. Complies to: AS3100.
	AS1308: 1973 Operating temperature and Differential
	AS3161-1979 Endurance test 30K cycles at
	25 amp. load at unity p.f.

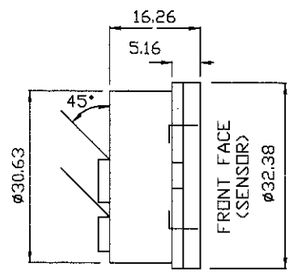
THERMOSTAT 'TYPE T1'



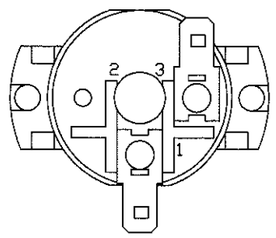
T1-A
S.P.D.T.



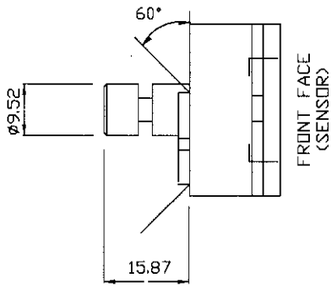
S.P.S.T.



AUTO RESET
CIRCUITS: Terminal 1 to Terminal 2 - NORMALLY OPEN
Terminal 1 to Terminal 3 - NORMALLY CLOSED

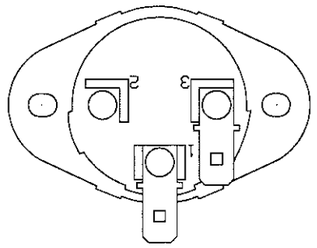


T1-B
S.P.S.T.



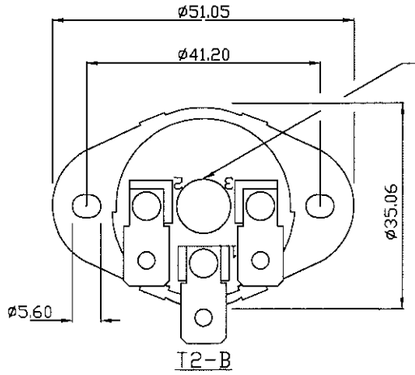
MANUAL RESET
CIRCUITS: Terminal 1 to Terminal 3 - NORMALLY CLOSED
NOTE: Manual Reset is dimensionally equal to Auto Reset, unless otherwise shown.

THERMOSTAT 'TYPE T2'



T2-A

CIRCUITS:
Terminal 1 to Terminal 2 - NORMALLY OPEN } Type T2 Auto Reset
Terminal 1 to Terminal 3 - NORMALLY CLOSED
Terminal 2 to Terminal 3 - NORMALLY CLOSED } Type T2 Manual Reset



T2-B

Type T2 Manual Reset Only